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# HOSPITAL FEDERATION

FOR

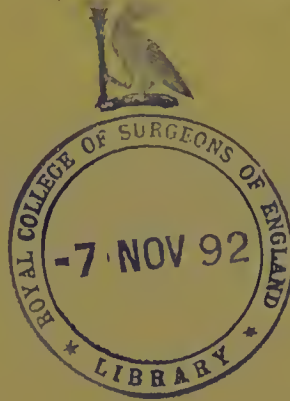
# CLINICAL PURPOSES

*A Suggestion*

BY

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IN the Report of the Royal Commission on a Teaching University in and for London, it is stated that the opportunities for Clinical Instruction that exist in the Metropolis, are "unrivalled."

That this is so admits of no doubt, and that these unrivalled opportunities are not utilized to anything like their full extent is equally certain. No evidence was given before that Commission to show how these admittedly unrivalled opportunities could be utilized with more advantage to the student than they now are, and the Report is silent on this most important point. I trust that I may therefore be excused for venturing to make some suggestions towards the attainment of so desirable an end.

I have visited, at various times, most of the great medical schools in Europe and in the United States of America, and I can, without hesitation, affirm that the word "unrivalled," used in the Report of the Royal Commission, as descriptive of the clinical opportunities presented by London, is the correct designation. No city in the civilised

world offers such a wealth, and so varied an abundance of clinical material, as does London, both as regards general medical and surgical practice, and particular forms of special disease, and yet so little are these unequalled opportunities utilized that English medical students annually resort in large numbers to the Cliniques of Paris, Vienna and Berlin, in order to obtain that professional knowledge to which access is denied to them in this Metropolis. They can there follow without restraint, and at little or no cost, the teaching of the most eminent physicians and surgeons, and of the most able specialists of the day. They return skilled in foreign methods of diagnosis and of treatment, but with little knowledge of those that are to be learnt in this great city, outside the walls of the particular hospital in which they have been educated. For to the vast and varied stores of clinical information that here lie within easy reach, access is practically denied, and indeed, of their very existence they may be ignorant. The student is obliged to go abroad for the purpose of obtaining advanced and special clinical instruction, not from any lack of material here, but in consequence of its inaccessibility and the absence of all proper organization for its study and utilization. In London he is absolutely restricted to the teaching of the physicians and surgeons of the one particular hospital to which, as a pupil, he has attached himself, and for which he has paid his fees. The invaluable instruction to be gained from the vast practical experience and profound scientific attainments of such teachers as a Jenner or a Gull, a Paget

or a Lister, or the skill to be acquired by being the daily witness of the consummate methods of a Liston, a Fergusson or a Bowman, are denied him here, unless he happens to have entered as a pupil to the hospital to which one or other of these masters of their Science and Art is at the time attached. To the practice of that one particular man he is admitted. From that of the others he is shut out, unless he possesses the means and has the inclination to pay a second or a third time the very considerable fee for "hospital attendance."

This indeed is a student's question, and the matter should be considered from a student's point of view, rather than from that of the teacher in the medical school, or the governor of the hospital. The London student has a right to expect that he shall not be placed at a disadvantage by the refusal freely to open to him those vast stores of clinical observation and study that are to be found in such unequalled and profuse abundance in London, and thus to be compelled either to starve his craving for knowledge if he remains here, or to satisfy it at the cost of going abroad. There is no other alternative.

But may not this state of things, so injurious to the best interests of medical education, be corrected? Is it not possible to place London, not only on a level with, but far ahead of all other European capitals, as a great School of Clinical Medicine and Surgery in the widest sense of Clinical Teaching as well as in its more special departments? I cannot doubt that with proper organization of the enormous opportunities for

clinical study that exist in London, and by rendering these accessible to the advanced student and young practitioner, the necessity for foreign study will no longer be felt, and that the Cliniques of London will attract in their turn, students not only from all parts of the United Kingdom, but from our Colonies, the United States of America, and even the Continent of Europe. Those who may wish for special opportunities of study and of instruction in every department of clinical medicine and surgery will come here, and the Cliniques of London will be placed in that pre-eminent position which its physicians and surgeons have so long and so ably maintained.

The value of a clinique is determined by three considerations. These are, first, the amount of clinical material, second the character of the cases, and third the ability of the teachers.

Few, even amongst the members of the medical profession, are probably aware of the immense amount of clinical material that exists in London. The vast number of diseased and injured persons of the class that seeks cure and relief in our hospitals, infirmaries and medical charities of all kinds far exceeds that of any other city in the world. The population of the County of the City of London equals in numbers that of the whole of Scotland and exceeds greatly that of many Continental Sovereign States. Engaged in every possible kind of industrial pursuit, hazardous to life or limb, and injurious in many special ways to health, it would of necessity furnish an enormous amount of injury and disease. To this must be



added a very large number of persons suffering from serious or special forms of disease who are constantly attracted to London from all parts of England, and even from the Colonies by the world-wide reputation of its hospitals, both general and special, and by that of individual members of their staffs.

There are eleven general hospitals in London of sufficient size to be recognised by the Royal Colleges as schools of clinical medicine and surgery. In these eleven clinical hospitals there is a total of 4542 beds.\* The number of beds varies greatly, from 750 in the largest, to 180 in the smallest of these hospitals. Besides these there are several smaller general hospitals, such as the Great Northern, the Metropolitan, the West London, and the North-Western Hospitals which although not recognised by the Examining and Licensing Corporations as schools of medicine afford abundant opportunities for clinical study and the acquirement of practical experience.

The amount of clinical work done at a hospital cannot be measured solely by the number of its beds. The out-patient departments which have now grown to enormous and almost overwhelming proportions in all the London hospitals furnish an abundant supply of interesting and instructive cases. More particularly of various special forms of medical and surgical disease which do not require to be treated in hospital—such as affections of the eye, the ear, the skin and the throat—for

\* This number is taken from the list published in the *British Medical Journal* for Sept. 3, 1892.

which special clinics are now established in all the larger General Hospitals. In addition to these there are special departments in the general hospitals for the treatment of diseases of women and children and to all a maternity charity is also attached.

The Poor-law Infirmaries in the Metropolitan area are very numerous and contain a vast number of beds. I find on reference to Churchill's "*Medical Directory for 1892*" the most reliable source of information on such a subject, that there are no less than 27 such infirmaries containing an aggregate of 13285 beds, or an average of nearly 500 beds. These are in fact general hospitals, and contain an immense amount of clinical material that now goes to waste, but that admits of being most advantageously utilized. Of its great value I can give no better proof than that of the work done by Sir Henry Thompson, who, when surgeon to the St. Marylebone Infirmary at the commencement of his brilliant career, made there a series of researches on the Diseases of the Prostate of the most important character; whilst his predecessor Mr. Benjamin Phillips, F.R.S., found in the wards of the same infirmary the material which served as the basis of his work in Scrofula. These infirmaries contain inexhaustible material for the study of the diseases of advanced life, of childhood, and of many special forms of disease, such as those of the skin. In early professional life I was a frequent visitor to the wards of the St. Marylebone Infirmary, which was then officered by Dr. Mayo, President of the Royal College of Physicians, Dr.

Clendinning and Mr. Benjamin Phillips, F.R.S., and learnt much in them of diseases that are not usually met with in general hospitals.

The Special Hospitals of London are very numerous. They are of two kinds :—those that have been established by the benevolent public to fill a gap and a recognised want in the other charitable institutions, and those that have been founded by, and to use an American expression, are “run” by special practitioners. For obvious reasons such institutions as the latter are not suited for educational purposes or as schools for clinical instruction.

But the special hospitals that belong to the first category are numerous, large, well-equipped and officered by physicians and surgeons of the highest eminence, and of acknowledged ability in their respective special lines of practice.

It would be impossible here to mention all the special hospitals that exist in London, and might be made available for clinical instruction. But a few of the most important may be specified. Thus the seven “Fever” hospitals, for the reception of acute zymotic diseases, contain (1892) a total of 2571 beds, often greatly augmented in periods of the prevalence of epidemics, as of typhoid or scarlatina.\* The two largest hospitals for diseases of the chest, viz., the Brompton Hospital for Consumption and the City of London Hospital, contain respectively, 321 and 164 beds. The Moorfields Ophthalmic Hospital contains 100 beds, but as the vast majority of cases of eye disease admit

\* At the present time (October, 1892) these Hospitals contain over 4000 cases of scarlatina, diphtheria and typhoid.

of being treated as out-patients, it is in its external clinique rather than in its in-patients, that the measure of its utility as a clinical school is to be found. The Cancer Hospital contains 120 beds, and the Lock Hospital 155. Both these Institutions contain valuable material for Clinical Study.

There are at least eight special hospitals for children, containing an aggregate of 621 beds. Of these eight hospitals, two, viz., the hospital in Great Ormond Street with 175 beds, and the East London with 102, would be available for purposes of clinical instruction. There are five hospitals for diseases peculiar to women, containing an aggregate of 241 beds, which are chiefly devoted to the reception of patients suffering from diseases requiring surgical treatment. In addition to these there are eight Lying-in hospitals.

The National Hospital for the Paralysed and Epileptic in Queen's Square contains 175 beds, and is now thoroughly equipped for clinical instruction. There is one special hospital which I believe to be peculiar to London, I mean the "Poplar Hospital for Accidents," an institution rendered necessary by the hazardous work carried on in its neighbourhood. It contains 51 beds. There is thus in the General and Special Hospitals alone an aggregate of from 8000 to 9000 beds available for clinical purposes.

The Asylums for Idiots, Imbeciles and Lunatics, are very large. The five Asylums for Idiots and Imbeciles contain an aggregate of 6750 beds. Bethlem and St. Luke's Hospitals contain a total of over 500 beds, and the five public Lunatic

Asylums specially connected with the Metropolis, an aggregate of 12,705 beds.

In addition to the vast amount of clinical material that exists in London, in its various large General Hospitals, its Infirmaries, its more important Special Hospitals, its Maternities, and its Asylums for the Idiotic and Insane, and which might all be made available for the purposes of study and of instruction, there is much more to be found in the smaller hospitals and in the dispensaries which abound in the Metropolis. These institutions, though highly useful for the purposes of private study and observation, are neither officered nor equipped in a manner that would render them available as Clinical Schools. They have accordingly been left entirely out of present consideration.

It is not only the amount of the material available for clinical instruction that has to be taken into consideration in estimating the value of a Clinique. Its character must also be taken into account, and in this respect London will be found to be as far beyond all rivals as in the mere number of its patients.

By the character of the clinical material I mean the importance of the cases of which it is composed, either as regards severity or rarity, or as presenting typical forms of disease. The high reputation of the Metropolitan Hospitals, and the acknowledged eminence of many members of their staffs, have always attracted a large number of persons suffering from the more serious, special, or incurable forms of medical and surgical disease, to seek



advice in the Metropolis. This number has been largely increased of later years by the facility and cheapness of transit. Many provincial practitioners also prefer to send their more important cases for advice and operation, to their old Hospital, and their old Teachers in London, on whose judgment and skill they have reliance, and with whose views they are acquainted. A considerable percentage of the in-patients in the London hospitals thus comes up to London for advice and operation. I find that at University College Hospital—with the details of which in this respect I am only acquainted—the proportion of the in-patients who come or are sent up from the Provinces, amounts as nearly as possible to ten per cent. of the whole.

But there is another potent factor in raising the standard of gravity in the in-patients of many, at least, of the London hospitals. It is their acknowledged insufficiency in point of accommodation for all of those who seek their aid. Hence a strict process of selection is adopted by the resident officers in the admission of patients, and only the most severe, urgent and important cases are admitted. All of those who can in any way be treated in the out-patient department and most of the chronic cases being referred to it.

Of the professional eminence and the special aptitude for teaching of the large body of distinguished physicians and surgeons connected with the London medical schools, I need say nothing, as they are universally recognised and are beyond dispute.

There is thus every element for the formation in London of the most important school of clinical medicine and surgery in the world. But to do this the material at hand must be organised and rendered accessible to the student. I will now consider how this can be done.

The available clinical material that exists in London may be arranged in three groups of institutions, viz., the General Hospitals, with medical schools attached; the larger and more important Special Hospitals, and the Poor-Law Infirmaries and Asylums.

Of these the eleven large general hospitals with their 4542 beds, their special departments, and their maternities are by far the most important. They are the most important not only on account of the number of beds they contain and the character of the cases that fill those beds, but of the acknowledged eminence as practitioners and teachers of the great body of physicians and surgeons attached to them. Taken collectively and federated together, so that the instruction given in them should be opened to the advanced student, they would constitute a great clinical school of medicine and of surgery in all their branches that would be without an equal in Europe. In this case union is strength. Taken collectively they are superior to all. But their weakness lies in their isolation, for taken singly as separate and distinct clinical schools, many of them are inferior as regards number of beds, construction and equipment to some of the great provincial hospitals in this country, and none, not even the

largest and most important can claim superiority as clinical schools over those of the capitals and great cities of the continent of Europe or in the United States of America.

The remedy is to be found in the abandonment of the system of isolation that at present exists, and which neutralizes the immense and undoubtedly unrivalled opportunities for clinical study that are to be found in the great hospitals and other medical charities of London. For this should be substituted a system of Federation for clinical purposes. For it is idle to speak of these opportunities as being "unrivalled" so long as the most important of them are cut up into as many distinct and separate fragments as there are hospital schools in the Metropolis, and the remainder are scarcely, if at all, utilized; so that for all purposes of clinical instruction each hospital school is as completely separated from its neighbour as if it were at the Land's End or at John o' Groat's House.

Unless a system of Federation for clinical purposes be substituted for that of isolation, and the unrivalled opportunities that I have shown to exist be fully utilized so as to be brought collectively within reach of the advanced student and young practitioner, the medical school of London—great as it undoubtedly is—will never take that pre-eminent position which it is entitled to assume amongst the schools of Europe, both by the acknowledged ability of its teachers and the immensity of its clinical opportunities.

The system that at present exists in London is so well known as scarcely to require description.



It is as follows:—The student “enters” to one particular hospital and continues a pupil of it till he has passed his examinations. He is limited to the practice of that hospital and to the clinical instruction of the medical staff connected with it. The fees that he has paid for these privileges are considerable, and he is shut out from attendance on the practice or the clinique of any other hospital, unless he chooses to “enter” it, and to pay another fee for clinical instruction. This I need scarcely say is very rarely, if ever done. He continues through life as a rule attached to his own hospital with the traditions of which he is imbued, and with the practice of which alone he is acquainted. The choice of the hospital preferred by the pupil is usually determined by convenience of locality, or by some personal acquaintance with a member of the staff, or some former student, rather than by any special regard to the merits of the particular hospital as a place of instruction—of which probably neither he or his friends are competent judges.

The evils arising from this condition of things are not felt in the earlier part of the student’s career, but they become manifest later on. The five years curriculum now required by the licensing corporations may be carried on anywhere, at any medical school in London or the Provinces. Any medical school that is recognised by the Royal Colleges may be taken to be fairly equipped, and its teaching fully sufficient for carrying the pupil through his education up to a good minimum Pass-Examination, such as that of the Conjoint Board or the M.B. of most British Universities.

My remarks, therefore, do not apply to the pupil who is preparing for his examinations, but to the student in the subsequent and more important part of his career when qualifying for the M.D. degree or seeking to perfect his knowledge. Indeed I consider it to be very important that the study leading up to the Pass-Examinations, should be carried on at one medical school only, and under one set of teachers. The same subjects are taught in all the medical schools and cannot vary. But the method of teaching these subjects, and the manner in which they are handled, vary greatly, and this is true, not only with regard to subjects that admit of much difference of opinion, but even of such as ordinary descriptive anatomy, which are little more than a mere collection of facts to be committed to memory. By going from one school to another the pupil would have to change his method, which would result in much confusion and loss of time. That faculty of sustained attention, also so important, but also so difficult of attainment by the young, would be likely to suffer.

In any scheme of Federation the larger and more important Special Hospitals—such as those I have already mentioned—should be included. Much valuable information is to be obtained in them, in respect to the diagnosis and detail of treatment of the class of cases with which each hospital is specially concerned. Much is to be learnt by the advanced student in the opportunity he would there have of observing and comparing large numbers of cases of allied diseases, and he would be able to do this under the most favourable cir-

cumstances, as many of the physicians and surgeons of the special hospitals are skilled and experienced Teachers in the General Medical Schools.

The 27 Poor-Law Infirmaries offer—as has already been said—enormous and varied opportunities for clinical study. But their organization and admission into any general scheme of medical education would be attended by some difficulties, owing to the nature of their government, and I would defer the consideration of this part of the subject to some other time, contenting myself for the present with merely pointing out the vast amount of clinical material stored up in these 13,285 beds, and in the vast opportunities for the study of mental diseases afforded by the great Lunatic Asylums in and around the Metropolis.

The establishment in London of a Teaching University to which the Medical Schools would be attached as Constituent Colleges, would be a most favourable occasion for the Federation (for clinical purpose) of the Hospitals connected with those Schools, and for the mutual interchange of students during the final two years preceding the Examination for the M.D. degree, under certain restrictions to be agreed upon by the Colleges and the Council of the University.

The scheme that I would venture to suggest for the purpose of Hospital Clinical Federation is briefly as follows :—On the admission of a Medical School as a Constituent College of the New Teaching University, it should become a Member of the Hospital Federation. The admission of any given

school as a Constituent College would be voluntary, but a condition of such admission should be that it become federated, so far as Advanced Clinical Hospital Instruction is concerned, with the other Constituent Medical Colleges.

The federated hospitals should be open for the purposes of clinical instruction to all those students who intend to present themselves for examination for the M.D. degree of the New University. No student being admissible to such instruction until after having obtained a registrable qualification, and only during the final period of two years of study. No student *in statu pupillari* being admissible to any other instruction than that which is given at his own particular hospital.

Admission to the clinical instruction of the federated hospitals should be by Ticket, to be issued by the University, for which no fee should be paid by London students beyond a small one, say of One Guinea, to meet the expense of registration, and to insure the *bona fides* of the applicant. In the case of the provincial students who had not previously entered to the practice of any of the Metropolitan Hospitals, an entrance fee should be paid to the University, the amount and disposal of which may from time to time be determined by the Council. Or, by entering directly to the practice of one of the federated hospitals, he would be placed in the same position as a London student.

In the case of the special hospitals that have become federated a small fee should be charged—such as is now paid for attendance on “Post-

graduate" classes—and as attendance on these hospitals is now recognized by the Royal Colleges as part of their five years curriculum, no difficulty need be anticipated here.

Special arrangements would require to be made with the Metropolitan Infirmaries and Asylums for the admission of a limited number of students to their practice, and residence in an official capacity in these institutions, and at the larger federated special hospitals might be held to count for a part, at least, of the final two years clinical study.

The requirement from the candidates for the M.D. degree of a residence in London, and attendance for a period of two years at one or more of the colleges of the New Teaching University of London is in strict conformity with the rule of every other teaching university in Great Britain. The four Scottish universities all require residence as an essential preliminary to admission to examination for their degrees. So likewise do the four teaching universities of England. On what ground, therefore, can this be refused in the Teaching University for London? If the principle of residence be right for Edinburgh and Glasgow, Aberdeen and St. Andrews, for Oxford and Cambridge, Durham and Manchester, how can it be wrong for London? If not necessary for the London student, on what ground can its necessity be urged for those of other universities of a similar scope as that for London?

The M.D. degree should not be given before the age of 24, two years subsequently to the time at which the registrable qualification has been ob-



tained. These two years should be devoted to the attainment of proficiency in clinical medicine and to the practical subjects connected with it. Two years so spent would be undoubtedly the most important in the career of the student. When once he has emerged from his pupilage and has obtained his registrable qualification he may disembarass his mind of a vast amount of detail with which it has been encumbered for the purposes of passing successfully the dreaded ordeal of the various examinations leading up to the attainment of his diploma—and he is then free to devote himself specially to clinical medicine, and to such other scientific and practical work for which he may have special aptitude or natural inclination.

The whole of the day cannot, and need not, be spent in clinical study and observation. Much time should be given to it, but much may also be reserved for practical study and work in the laboratories of physiology, pathology, bacteriology, hygiene and forensic medicine. These scientific departments of medicine should occupy his attention as well as clinical medicine, for in them should his examination for the M.D. be conducted and to proficiency in them must he look for success as a scientific practitioner in future life. In the study of such subjects as those which are comprised in what are termed “post-graduate” courses, the student will find the most useful and profitable employment during the final two years that should intervene between his ordinary “Pass” and his ultimate M.D. examination.

He will now have been emancipated from his

own particular school—from that school of medicine in which he has received his education up to the period of his pass, and he will naturally seek for instruction in the higher and more scientific branches of his profession, wherever the fame of the teachers is highest and the equipment of their laboratories the most complete. Should this be in his own school he will naturally remain there. Should superior attractions and opportunities present themselves elsewhere, he will—if wise—not allow himself to be fettered by old ties and traditions, but get the best instruction from the best teachers and in the best equipped laboratories wherever they are to be found.

He will find that every clinical school presents some special distinctive feature or method of its own, differing perhaps widely from that to which he has heretofore been accustomed, but well deserving careful study and comparison. His horizon will be widened. He will learn no longer “*jurare in verba magistri*,” but to form juster conceptions in science, and to take broader views in practice than he possibly could when confined to the narrowing influences of the teaching of one set of men, and the traditions of one hospital only, and he will be led to form a clear and considerate judgment on men whose opinions, though differing from those of his own teachers, he may yet find not to be entirely erroneous or undeserving of consideration.

